

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S155  | 135  | ((S154 S152 S151 S150 S153 S147 S151 S152 S146 S148 S149 S150 S142 S143 S144 S145 S138 S139 S140 S141 S119 S120 S121 S122 S123 S124 S125 S126 S127 S128 S129 S130 S131 S132 S133 S134 S135 S136 S137)) and (@ad<="20031028" @pd<="20031028" @rlad<="20031028" @prad<="20031028") and @pd>"20060608" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/03/15 18:01 |

## EAST Search History

|   |     |  |                              |    |     |                  |
|---|-----|--|------------------------------|----|-----|------------------|
| S15<br>4  | 191 | ( "3096434"   "3404264"  <br>"3701280"   "4058975"  <br>"4099413"   "4337516"  <br>"4517468"   "4530234"  <br>"4635214"   "4642782"  <br>"4644479"   "4649515"  <br>"4707796"   "4777585"  <br>"4819233"   "4831564"  <br>"4843557"   "4873655"  <br>"4907167"   "4924418"  <br>"4934196"   "4964125"  <br>"4992965"   "5005142"  <br>"5022028"   "5043862"  <br>"5053815"   "5081598"  <br>"5089984"   "5098197"  <br>"5099436"   "5103409"  <br>"5111531"   "5121467"  <br>"5122976"   "5130936"  <br>"5134574"   "5142612"  <br>"5148378"   "5167009"  <br>"5175678"   "5193143"  <br>"5197114"   "5197328"  <br>"5200958"   "5212765"  <br>"5214582"   "5224203"  <br>"5228780"   "5235527"  <br>"5265031"   "5265222"  <br>"5274572"   "5282131"  <br>"5282261"   "5293585"  <br>"5303181"   "5305230"  <br>"5311421"   "5311562"  <br>"5317520"   "5327357"  <br>"5333240"   "5349541"  <br>"5357449"   "5361628"  <br>"5365423"   "5367612"  <br>"5384699"   "5386373"  <br>"5390287"   "5394341"  <br>"5394543"   "5404064"  <br>"5408406"   "5408586"  <br>"5414645"   "5419197"  <br>"5430642"   "5440478"  <br>"5467355"   "5469735"  <br>"5483387"   "5485753"  <br>"5486996"   "5488697"  <br>"5489831"   "5500941"  <br>"5511004"   "5548528"  <br>"5561599"   "5570300"  <br>"5572420"   "5586066"  <br>"5598521"   "5600148"  <br>"5625574"   "5640491"  <br>"5671335"   "5671351"  <br>"5675504"   "5704011"  <br>"5781878"   "5838561"  <br>"5848365"   "5909368"  <br>"5995916"   "6014612"  <br>"6195591"   "6260004"  <br>"6298454"   "6317701"  <br>"6445963"   "RE29383"  <br>"6570382"   "6570945" | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |
| 5/8/07 3:55:08 PM<br>C:\Documents and Settings\GCHU\My Documents\EAST\workspaces\10695889.wsp |     |  |                              |    |     | Page 2           |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S15<br>3 | 521 | (714/37).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S15<br>2 | 24  | ("4812819"   "5159685"  <br>"5295230"   "5337320").PN. OR<br>("5513343").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/03/15 18:01 |
| S15<br>1 | 32  | ("3976864"   "4084260"  <br>"4434489"   "4709366"  <br>"4757463"   "4847795"  <br>"4964125"   "5099436").PN. OR<br>("5351247").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/03/15 18:01 |
| S15<br>0 | 2   | ((("6208955") or ("6415276"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB             | OR | OFF | 2007/03/15 18:01 |
| S14<br>9 | 4   | ("2002/0194524").URPN.  | USPAT   | OR | OFF | 2007/03/15 18:01 |
| S14<br>8 | 6   | ("2002/0019870").URPN.  | USPAT   | OR | OFF | 2007/03/15 18:01 |
| S14<br>7 | 518 | (714/39).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S14<br>6 | 261 | (714/26).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S14<br>5 | 27  | ("20020144193"   "20020194524"<br>  "20030074471"   "4500985"  <br>"5239537"   "5303302"  <br>"5333301"   "5390188"  <br>"5396495"   "5448722"  <br>"5519830"   "5574856"  <br>"5636203"   "5664093"  <br>"6006016"   "6016510"  <br>"6249887"   "6324659"  <br>"6353902"   "6414595"  <br>"6442694"   "6460070"  <br>"6499117"   "6556540"  <br>"6587960"   "6609167"  <br>"6675346").PN. OR ("7058844").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/03/15 18:01 |

## EAST Search History

|          |    |   |                              |    |     |                  |
|----------|----|---|------------------------------|----|-----|------------------|
| S14<br>4 | 30 | ("20020144193"   "20020191602"<br>  "20020194524"   "20030074471"<br>  "5239537"   "5303302"  <br>"5333301"   "5390188"  <br>"5396495"   "5448722"  <br>"5519830"   "5574856"  <br>"5636203"   "5664093"  <br>"5987629"   "6006016"  <br>"6016510"   "6105068"  <br>"6151688"   "6249887"  <br>"6324659"   "6353902"  <br>"6414595"   "6442694"  <br>"6460070"   "6499117"  <br>"6556540"   "6587960"  <br>"6609167"   "6675346").PN. OR<br>("6990609").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |
| S14<br>3 | 31 | ("5761502"   "5809238"  <br>"5822583"   "5872931"  <br>"5944782"   "5960439"  <br>"5978845"   "6006016").PN. OR<br>("6336139").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |

## EAST Search History

|          |    |   |                              |    |     |                  |
|----------|----|---|------------------------------|----|-----|------------------|
| S14<br>2 | 71 | ( "3805038"   "4062061"  <br>"4270174"   "4322813"  <br>"4463418"   "4517468"  <br>"4521847"   "4695946"  <br>"4823914"   "4970725"  <br>"4977390"   "5023817"  <br>"5113489"   "5123017"  <br>"5127005"   "5157610"  <br>"5216621"   "5224206"  <br>"5274572"   "5282127"  <br>"5287505"   "5313388"  <br>"5321837"   "5329465"  <br>"5400018"   "5406502"  <br>"5445347"   "5463768"  <br>"5508941"   "5515297"  <br>"5528516"   "5566091"  <br>"5594663"   "5596712"  <br>"5633628"   "5638296"  <br>"5661668"   "5666481"  <br>"5666534"   "5678002"  <br>"5680541"   "5729452"  <br>"5742915"   "5761092"  <br>"5774645"   "5790780"  <br>"5799148"   "5815071"  <br>"5835871"   "5845272"  <br>"5862316"   "5928369"  <br>"5950147"   "5956664"  <br>"6052631"   "6073089"  <br>"6078851"   "6144901"  <br>"6175934"   "6216066"  <br>"6243628"   "6263265"  <br>"6301531"   "6324659"  <br>"6336065"   "6338152"  <br>"6343236"   "6405108"  <br>"6415395").PN. OR ("6947797").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |
| S14<br>1 | 81 | ( "5253184"   "5311422"  <br>"5317725"   "5333314").PN. OR<br>("5666481").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |
| S14<br>0 | 81 | ( "4409662"   "4881230"  <br>"4972453"   "4985857"  <br>"5210704"   "5214653"  <br>"5223827"   "5394543"  <br>"5483637"   "5491687"  <br>"5513185"   "5539877"  <br>"5568491"   "5652714").PN. OR<br>("6006016").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/03/15 18:01 |

## EAST Search History

|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S13<br>9 | 58 | ("4888771"   "5159685"  <br>"5247664"   "5263157"  <br>"5297262"   "5361347"  <br>"5402431"   "5428619"  <br>"5448722"   "5452433"  <br>"5539877").PN. OR ("5664093").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2007/03/15 18:01 |
| S13<br>8 | 19 | ("4964125"   "5377196"  <br>"5633800"   "5983364"  <br>"6115489"   "6145096"  <br>"6170065"   "6249755"  <br>"6260048"   "6357017"  <br>"6442542"   "6501849"  <br>"6507831").PN. OR ("6681344").<br>URPN.                    | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2007/03/15 18:01 |
| S13<br>7 | 1  | ("6918059").URPN.   | USPAT                                       | OR | OFF | 2007/03/15 18:01 |
| S13<br>6 | 1  | ("6918059").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S13<br>5 | 5  | ("6408407").URPN.   | USPAT                                       | OR | OFF | 2007/03/15 18:01 |
| S13<br>4 | 1  | ("6408407").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S13<br>3 | 4  | ((("5748098") or ("5768501") or<br>("5864662") or ("6775236"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S13<br>2 | 7  | ((("20010056553") or ("5771274")<br>or ("5774645") or ("6253339") or<br>("6680903") or ("6707795") or<br>("6748557"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S13<br>1 | 13 | ((("5287505") or ("5666481") or<br>("5774645") or ("5812397") or<br>("6006016") or ("6029258") or<br>("6199018") or ("6516427") or<br>("6553507") or ("6629267") or<br>("6681344") or ("6687847") or<br>("20020138786"))).PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S13<br>0 | 8  | ((("5107500") or ("5179695") or<br>("5287505") or ("5455933") or<br>("6029258") or ("6065136") or<br>("6516427") or ("6539499"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |

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|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S12<br>9 | 1  | ("6513129").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>8 | 14 | ((("4041455") or ("5428619") or ("5483637") or ("5664093") or ("5666481") or ("5748880") or ("5819019") or ("5944782") or ("5968189") or ("5983364") or ("6000045") or ("6000046") or ("6401116"))).PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>7 | 8  | ((("5357611") or ("5594861") or ("5715496") or ("5862308") or ("6032001") or ("6205466") or ("6249812") or ("6446224"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>6 | 4  | ((("4385384") or ("5023873") or ("6480531") or ("6484206"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>5 | 3  | ((("3696340") or ("6430590") or ("6442458"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>4 | 10 | ((("4817418") or ("5331560") or ("5448722") or ("5500797") or ("5631831") or ("5740354") or ("5757645") or ("5930824") or ("5939625") or ("6295488"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>3 | 3  | ((("6181994") or ("6195763") or ("6275753"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>2 | 13 | ((("4339801") or ("4497057") or ("4590550") or ("4627055") or ("4839811") or ("4926352") or ("4943919") or ("5287505") or ("5671141") or ("5680541") or ("5964811") or ("6112150") or ("6115653"))).PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>1 | 4  | ((("4153945") or ("5774645") or ("6199018") or ("6324658"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S12<br>0 | 5  | ((("5440688") or ("5479611") or ("5748883") or ("6148419") or ("6173422"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S11<br>9 | 13  | ((("5494136") or ("3575589") or ("4617661") or ("6269460") or ("3786430") or ("4598356") or ("5007056") or ("3818199") or ("4497057") or ("6128017") or ("5299207") or ("5748880") or ("6000045")).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB             | OR | OFF | 2007/03/15 18:01 |
| S99      | 144 | ((S98 S94 S93) not (S92 S96 S89 S93 S94 S88 S90 S91 S92 S84 S85 S86 S87 S80 S81 S82 S83 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79)) and (@ad<="20031028" @pd<="20031028" @rlad<="20031028" @prad<="20031028"))      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/15 18:01 |
| S15<br>6 | 1   | (storage and area and network and event\$1 and condition\$1 and monitor\$3 and time and interval\$1 and failure\$1 and analy\$8 and pattern\$1 and error\$1 and action\$1 and respon\$4 and compar\$5 and primary and alternate and redundan\$2).clm. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/15 18:13 |
| S10<br>8 | 79  | (redundan\$3 backup\$1 back-up\$1 (back\$3 adj up\$1)) near3 ((failure fault error) adj (analy\$6 diagnos\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 12:56 |
| L1       | 81  | (redundan\$3 backup\$1 back-up\$1 (back\$3 adj up\$1) alternate standby fail-over failover\$1 (fail\$3 adj over)) adj3 ((failure fault error) adj (analy\$6 diagnos\$4 detect43 test\$3 evaluat\$5))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:00 |
| L3       | 21  | 1 and (@ad<="20031028" @pd<="20031028" @rlad<="20031028" @prad<="20031028") and "714". clas.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:01 |
| L2       | 71  | 1 and (@ad<="20031028" @pd<="20031028" @rlad<="20031028" @prad<="20031028"))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:14 |
| L8       | 5   | 6 and 7   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:17 |



## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L7  | 119 | (714/41).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:17 |
| L6  | 572 | (714/13).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:17 |
| L5  | 50  | (1 not 3) and (@ad<="20031028"<br>@pd<="20031028"<br>@rlad<="20031028"<br>@prad<="20031028")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 13:17 |
| L10 | 7   | ((("20040010731") or ("5805785")<br>or ("5951686") or ("6216237") or<br>("6553416") or ("6865580") or<br>("7103652"))).PN.                                  | US-PGPUB;<br>USPAT                                      | OR | OFF | 2007/05/08 14:11 |
| L12 | 16  | (10 11) and (@ad<="20031028"<br>@pd<="20031028"<br>@rlad<="20031028"<br>@prad<="20031028")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 14:12 |
| L11 | 9   | ((("20030079154") or ("5715386")<br>or ("6334193") or ("6334196") or<br>("6393485") or ("6446218") or<br>("6594784") or ("6629266") or<br>("6947957"))).PN. | US-PGPUB;<br>USPAT                                      | OR | OFF | 2007/05/08 14:12 |
| L9  | 5   | (8) and (@ad<="20031028"<br>@pd<="20031028"<br>@rlad<="20031028"<br>@prad<="20031028")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 14:12 |